



August 20, 2014

Pam King
Washington Holdings
600 University Street, Suite 2820
Seattle, WA 98101

RE: Water Quality Testing, EPA Tenant Improvement Project
Sampling Event #10 – Repeat Sampling on Floor 15
Water Fountain Sampling on Floors 7, 9, 10, 12, 13, 18, & 21

Park Place Building
1200 6th Avenue
Seattle, Washington
RGA Job# R3137233

On August 15, 2014, Emily Kahler, Industrial Hygienist for RGA Environmental, A Terracon Company (RGA) conducted drinking water testing for lead and copper at the above captioned site. Testing conducted in accordance with EPA-812-B-94-002 was used to collect repeat samples from floor 15. Additional new water sources (drinking fountains) were also tested on floors 7, 9, 10, 12, 13, 18, and 21. The purpose of the testing was to evaluate plumbed drinking water sources following tenant improvement renovations. Ms. Kahler was escorted by Building Security.

SAMPLING PROCEDURES

A total of eighteen (18) drinking water samples were collected during the sampling event. Samples were collected in sample bottles provided by the Aquatic Research, Inc. (250 ml, polyethylene with nitric acid preservative). Samples were analyzed for lead and copper in drinking water using EPA Method 200.8.¹ Drinking water samples were collected from the men's restroom on the 15th floor, water fountains outside the women's restrooms on the 7th, 9th, 13th, and 21st floors, outside the men's restrooms on the 10th, 12th, and 18th floors, and the water main on the 1st level of the parking garage at the Park Place building in Seattle, Washington.

The sampling protocol for the water fountains and restroom faucets consisted of a "first draw" sample (first water out of the tap following at least 8 hours of non-use) and a "secondary draw" sample (water collected after 30 seconds of flushing).

The sampling protocol for the Service Connection/ Service Main consisted of opening the tap closest to the service connection located in the garage and waiting for the water temperature to change from warm to cold before collecting the sample for the Service Connection. The water to then flushed for an additional 3 minutes following the collection of the Service Connection sample before collecting the Service Main Sample.

SAMPLE RESULTS

Table 1 below presents the sample results for samples (lead & copper) collected on August 15, 2014.

¹ The water samples collected were submitted to Aquatic Research, Inc. (lead and copper) in Seattle, Washington for analysis.

Table 1—Lead Water Sample Results – August 15, 2014

Location	SAMPLE ID	Lead (Pb) µg/l)	Copper (Cu) µg/l)	Lead Result	Copper Result
FLOOR 7					
Water fountain next to Women's restroom- Floor 7	7-WWF-FD-203	<1.0	<4.0	Pass	Pass
	7-WWF-SD-204	<1.0	<4.0	Pass	Pass
FLOOR 9					
Water fountain next to Women's restroom- Floor 9	9-WWF-FD-201	<1.0	20.6	Pass	Pass
	9-WWF-SD-202	<1.0	25.8	Pass	Pass
FLOOR 10					
Water Fountain next to Men's restroom- Floor 10	10-MWF-FD-199	<1.0	27.3	Pass	Pass
	10-MWF-SD-200	<1.0	28.5	Pass	Pass
FLOOR 12					
Water Fountain next to Men's restroom- Floor 12	12-MWF-FD-197	<1.0	51.1	Pass	Pass
	12-MWF-SD-198	<1.0	68.8	Pass	Pass
FLOOR 13					
Water Fountain next to Men's restroom- Floor 13	13-MWF-FD-195	<1.0	34.9	Pass	Pass
	13-MWF-SD-196	<1.0	28.9	Pass	Pass
FLOOR 15					
Men' Restroom Sink	15-MR-FD-189	16.6	212	Action Required	Pass
	15-MR-SD-190	5.8	111	Pass	Pass
FLOOR 18					
Water fountain next to Men's restroom- Floor 18	18-MWF-FD-193	<1.0	27.0	Pass	Pass
	18-MWF-SD-194	<1.0	26.1	Pass	Pass
FLOOR 21					
Water fountain next to Women's restroom- Floor 21	21-WWF-FD-191	<1.0	65.2	Pass	Pass
	21-WWF-SD-192	<1.0	52.4	Pass	Pass
Parking Level 1					
Service Connector/Service Main	P1-P1SC-FD-205	<1.0	<4.0	Pass	Pass
	P1-P1SM-SD-206	<1.0	<4.0	Pass	Pass
EPA Standard*		0 AL: 15 µg/L	AL: 1300 µg/L		

*EPA Drinking Water Maximum Contaminant Levels

FD=First Draw

SD=Second Draw

MR=Men's Restroom

WWF= Women's water fountain

MWF= Men's water fountain

SC=Service Connector

SM=Service Main

CONCLUSIONS

Sixteen of the Eighteen water samples collected contained no detectable concentrations of lead (above 1 µg/L). One of the eighteen samples contained detectable lead concentrations between 1 and 15 µg/L. No remedial or mitigation action is required for locations with sample results below the Drinking Water action level. One of the eighteen samples was above the action level. The sample above the action level was the first draw sample collected from the Men's

Restroom on the 15th floor. Water from this source should not be used until the source of lead is determined and mitigated.

All samples contained copper concentrations between 4 and 1300 µg/L. No remedial or mitigation action is required for locations with sample results below the Drinking Water action level.

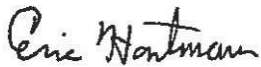
LIMITS OF SURVEY

This report does not represent all conditions at the subject site as it only reflects the information gathered from specific locations. Observation or sampling of other work areas was not within the scope of RGA's work and was not performed.

This report was prepared pursuant to the contract RGA has with the client. Unauthorized reliance on or use of this report, including any of its information or conclusions, will be at third party's risk. For the same reasons, no warranties or representations, expressed or implied in this report, are made to any such third party.

RGA appreciates the opportunity to provide you with technical support on this project. If you have any questions, please contact the undersigned at 206-281-8858.

Report Prepared by,



Eric Hartman, CIH
Senior Project Manager
RGA Environmental, a Terracon Company.

Attachments:

Lab Reports

Sample Location Maps



IEH - AQUATIC RESEARCH
LABORATORY & CONSULTING SERVICES
3927 AURORA AVENUE NORTH, SEATTLE, WA 98103
PHONE: (206) 632-2715 FAX: (206) 632-2417

CASE FILE NUMBER:	RGA001-03	PAGE 1
REPORT DATE:	08/19/14	
DATE SAMPLED:	08/15/14	DATE RECEIVED: 08/15/14
FINAL REPORT, LABORATORY ANALYSIS OF SELECTED PARAMETERS ON WATER		
SAMPLES FROM RGA ENVIRONMENTAL		

CASE NARRATIVE

Eighteen water samples were received by the laboratory in good condition and analyzed according to the chain of custody. No difficulties were encountered in the preparation or analysis of these samples. Sample data follows while QA/QC data is contained on the subsequent pages.

SAMPLE DATA

SAMPLE ID	LEAD (ug/L)	COPPER (ug/L)
21-WWF-FD-191	<1.0	65.2
21-WWF-SD-192	<1.0	52.4
18-MWF-FD-193	<1.0	27.0
18-MWF-SD-194	<1.0	26.1
13-WWF-FD-195	<1.0	34.9
13-WWF-SD-196	<1.0	28.9
12-MWF-FD-197	<1.0	51.1
12-MWF-SD-198	<1.0	68.8
10-MWF-FD-199	<1.0	27.3
10-MWF-SD-200	<1.0	28.5
9-WWF-FD-201	<1.0	20.6
9-WWF-SD-202	<1.0	25.8
7-WWF-FD-203	<1.0	<4.0
7-WWF-SD-204	<1.0	<4.0
15-MR-FD-189	16.6	212
15-MR-SD-190	5.8	111
P1-PISC-FD-205	<1.0	<4.0
P1-PISM-SD-206	<1.0	<4.0



IEH - AQUATIC RESEARCH
LABORATORY & CONSULTING SERVICES
3927 AURORA AVENUE NORTH, SEATTLE, WA 98103
PHONE: (206) 632-2715 FAX: (206) 632-2417

CASE FILE NUMBER:	RGA001-03	PAGE 2
REPORT DATE:	08/19/14	
DATE SAMPLED:	08/15/14	DATE RECEIVED: 08/15/14
FINAL REPORT, LABORATORY ANALYSIS OF SELECTED PARAMETERS ON WATER		
SAMPLES FROM RGA ENVIRONMENTAL		

QA/QC DATA

QC PARAMETER	LEAD (ug/L)	COPPER (ug/L)
METHOD	EPA 200.8	EPA 200.8
DATE ANALYZED	08/19/14	08/19/14
REPORTING LIMIT	1.0	4.0
DUPLICATE		
SAMPLE ID	21-WWF-FD-191	21-WWF-FD-191
ORIGINAL	<1.0	65.2
DUPLICATE	<1.0	65.1
RPD	NC	0.07%
SPIKE SAMPLE		
SAMPLE ID	21-WWF-FD-191	21-WWF-FD-191
ORIGINAL	<1.0	65.2
SPIKED SAMPLE	47.4	117
SPIKE ADDED	50.0	50.0
% RECOVERY	94.80%	103.90%
QC CHECK		
FOUND	48.7	47.0
TRUE	50.0	50.0
% RECOVERY	97.40%	94.00%
BLANK	<1.0	<4.0

RPD = RELATIVE PERCENT DIFFERENCE.

NA = NOT APPLICABLE OR NOT AVAILABLE.

NC = NOT CALCULABLE DUE TO ONE OR MORE VALUES BEING BELOW THE DETECTION LIMIT.

OR = RECOVERY NOT CALCULABLE DUE TO SPIKE SAMPLE OUT OF RANGE OR SPIKE TOO LOW RELATIVE TO SAMPLE CONCENTRATION.

SUBMITTED BY:

Damien Gadomski
Project Manager



IEH - Aquatic Research
3927 Aurora Ave N • Seattle • WA • 98103
P: 206-632-2715 F: 206-632-2417



Chain of Custody Form

Page 1 of 2

PGAC001-03

REPORT TO:

Client: PGA Environmental, A Terracon Company
Address: 3317 3rd Ave S. Suite D
Seattle WA 98134

Contact: Eric Hartman

Email: eric.hartman@terracon.com

Phone: 206-781-8888 206-781-8922

Reporting/Invoicing Format

☐ Fax ☒ Email ☐ Mail

QC Data Reported

☒ Yes ☐ No

Sample Disposal

☐ Hold ☒ Dispose ☐ Return

☒ SAMPLING

Date (mm-dd-yy)

Time

Matrix**

Advanced notice required for Rush Analysis

SAMPLE DESCRIPTION

(This Will Appear On The Report)

Specific Date:

Turn Around Time (TAT)*

☐ Next Day ☒ 2 Business Day

☐ 3 Business Day ☐ Standard

Number of Containers

Analysis Requested

Field pH (if applicable)

Field Temp (if applicable)

Metals Field Filtered (Y/N)

Containers Received

LAB USE ONLY

Case File Number

Temp

Lab ID

Shipping Reference

Date

Time

Relinquished to Aquatic By (Signature)

Date

Time

INVOICE TO: (IF DIFFERENT FROM REPORT)

Client: PGA Environmental, A Terracon Company
Address: 3317 3rd Ave S. Suite D
Seattle WA 98134

Contact: Heather Brumba

Email: heather.brumba@terracon.com

Phone: 206-781-8888 206-781-8922

Fax:

☐ Next Day ☒ 2 Business Day

☐ 3 Business Day ☐ Standard

Number of Containers

Analysis Requested

Field pH (if applicable)

Field Temp (if applicable)

Metals Field Filtered (Y/N)

Containers Received

LAB USE ONLY

Case File Number

Temp

Lab ID

Shipping Reference

Date

Time

Relinquished to Aquatic By (Signature)

Date

Time

Relinquished to Aquatic By (Signature)

Date

Time

Relinquished to Aquatic By (Signature)

Date

Time

Relinquished to Aquatic By (Signature)

Date

Time

Relinquished to Aquatic By (Signature)

Date

Time

Relinquished to Aquatic By (Signature)

**Matrix: B=Biota, DW=Drinking Water, GW=Ground Water, P=Paint, S=Soil,
SD=Sediment, SL=Sludge, SW=Surface Water, WW=Wastewater

Sampled By

Received By

Relinquished to Aquatic By (Signature)

Date

Time

Relinquished to Aquatic By (Signature)

Date

Time

Number of Containers

Lead by 200.8

Copper

Number of Containers

Lead by 200.8

Copper

Number of Containers

Lead by 200.8

Copper

Number of Containers

Lead by 200.8

Copper

Number of Containers

Lead by 200.8

Copper

Number of Containers

Lead by 200.8

Copper

Number of Containers

Lead by 200.8

Copper

Number of Containers

Lead by 200.8

Copper

Number of Containers

Lead by 200.8

Copper

Number of Containers

Lead by 200.8

Copper



IEH - Aquatic Research

3927 Aurora Ave N • Seattle • WA • 98103
P: 206-632-2715 F: 206-632-2417



Chain of Custody Form

Page 2 of 2

REPORT TO:

Client: 26th FNU. A Terracon Co.
Address: 337 3rd Ave S. Suite D
Seattle WA 98134

Contact: Eric L. Hartman

Email: eric.hartman@seanv.com

Phone: 206-281-8858

Reporting/Invoicing Format

☐ Fax ☒ Email ☐ Mail

☒ QC Data Reported ☐ No

Sample Disposal

☐ Hold ☒ Dispose ☐ Return

Specific Date: _____

*Advanced notice required for Rush Analysis

SAMPLING

Date (mm-dd-yy) Time Matrix** (This Will Appear On The Report)

8/14/14 7:34 ↓ Water P1-PISC 205 1 X
↓ 7:34 ↓ Water P1-PISC 206 1 X

INVOICE TO: (IF DIFFERENT FROM REPORT)

Client: _____
Address: _____
Contact: _____
Email: _____
Phone: _____
Fax: _____

PROJECT INFORMATION

Quote No.: _____
Client PO: _____
Client Project: _____

Analysis Requested

Field pH (if applicable)
Field Temp (if applicable)
Metals Field Filtered (Y/N)

Containers Received

LAB USE ONLY
Case File Number
Temp Lab ID

Comments:

**Matrix: B=Biota, DW=Drinking Water, GW=Ground Water, P=Paint, S=Soil,
SD=Sediment, SL=Sludge, SW=Surface Water, WW=Wastewater

Sampled By: [Signature] Date: 8/15/14 Time: 6:00

Received By: [Signature] Date: _____ Time: _____

Relinquished to Aquatic By (Signature): [Signature] Date: 8/15/14 Time: 8:15

Shipping Reference

Date: 8/15/14 Time: 8:20

1995

Frühjahr



ROUTE WASTE PROPOSAL

(TYPE 2). ROUTE TRAP PRESEN PING TO ALL FLOOR DRAINS SERVING RESTROOM.

21

Gensler
Seattle, WA, 98101
Telephone 206.434.1100
Facsimile 206.634.2122

HARGIS

Harjes Engineers, Inc.
600 Stewart Street, Suite 1000 | Seattle, WA 98101
t | 206.448.2076 f | 206.448.4450 w | harjes.biz

	Data & Name Description	By Check
	007290011 50% CD / Polono	AH BE
	008290011 95% CD / Polono	AH BE
	009290011 100% CD	AH BE
1	100020011 100% CD, Confined Sol.	AH BE
	007620013 45% Confined Sol.	AH BE
	006620013 100% Confined Sol.	AH BE

Project Name
EPA - REGION 10

Project Number _____

Description
PLUMBING PLAN -
PARKING LEVEL 1 -
NORTH

M02.P1A

SHEET NOTES:

1. FIELD VERIFY EXISTING CONDITIONS PRIOR TO STARTING CONSTRUCTION.
2. EXTEND EXISTING FIRE SUPPRESSION SYSTEM TO PROVIDE COMPLETE SPRINKLER COVERAGE FOR NEW FLOOR LAYOUT. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

1. FIELD VISIT TESTING CONDITIONS PRIOR TO STARTING CONSTRUCTION.

2. EXTEND EXISTING FIRE SUPPRESSION SYSTEM TO PROVIDE COMPLETE SPRINKLER COVERAGE FOR NEW FLOOR LAYOUT. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

1. CONNECT H₂O, H₂, 1-1/2" CW AND 2" V TO EXISTING SEWER.
2. CONNECT 2" WASTE TO EXISTING WASTE INLET. VERIFY POC LOCATION IN FIELD.
3. CONNECT 4" WASTE TO EXISTING WASTE INLET. VERIFY POC LOCATION IN FIELD.

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1200 6th Avenue Suite 500
Seattle, WA, 98101
Telephone 206.654.2100
Facsimile 206.654.2121

600 Stewart Street, Suite 1000 | Seattle, WA 98101
t | 206.448.3376 f | 206.448.4050 w | herpin.biz

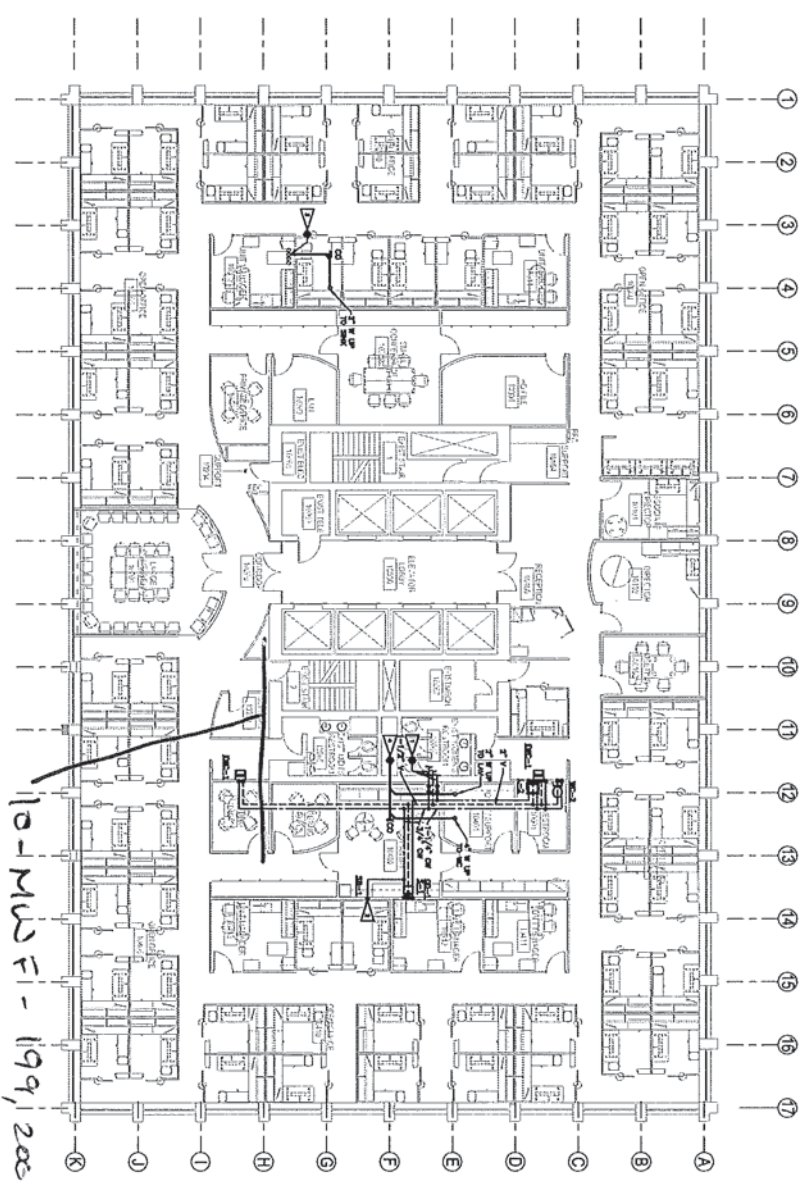
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Project Number
22-1119-000

Description
**PLUMBING PLAN -
10TH FLOOR**

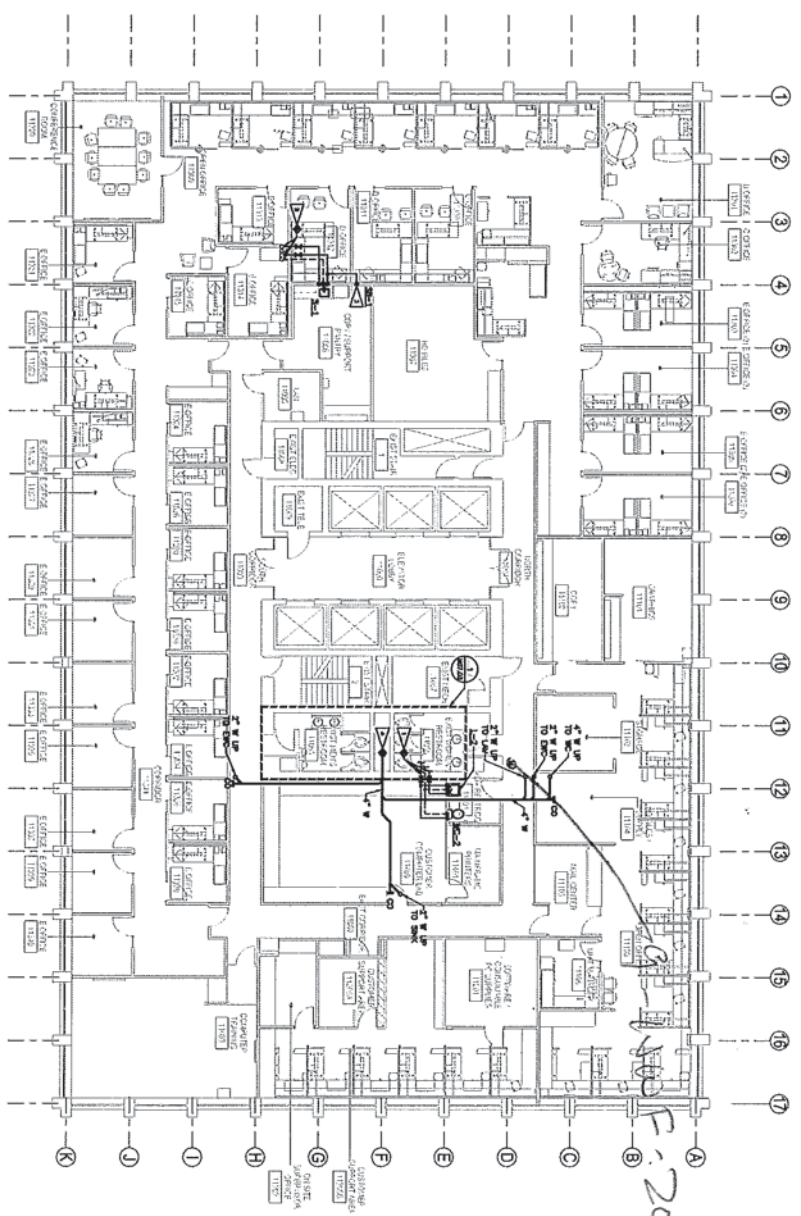
- 40710 Chevrolet

Q:\CEC\61609 000\Bldg Model_User Model Files\Barry Zimmerman_20181020_000_EPA_Phase 2.m



- SHEET NOTES**
1. FIELD VERIFY EXISTING CONDITIONS PRIOR TO STARTING CONSTRUCTION.
 2. OBTAIN EXISTING FIRE SUPPRESSION SYSTEM TO PROVIDE CORRECT SIZING AND COVERAGE FOR NEW FLOOR LOADS. VERIFY ALL SUPPRESSION FOR EXISTING CONDITIONS.

- FLAG NOTES**
- ▷ CONNECT NEW 3/4" RM, 1-1/4" CM AND 2" V TO EXISTING 2" V.
 - ▷ CONNECT NEW 3/4" RM, 3/4" CM AND 1-1/2" V TO EXISTING 2" V.
 - ▷ 1/2" CM. CONNECT TO NEAREST EXISTING.
 - ▷ CONNECT 4" WATER TO EXISTING WATER MAIN. VERIFY PIPE LOCATION IN FIELD.



NO 201, 202

EPA - REGION 10

1200 6th Ave.
Levels 10-16 & 18-21
Seattle, WA 98101

Gensler
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Facsimile 206.454.2211

HARGIS

400 Second Street, Suite 1000
Seattle, WA 98101
Telephone 206.454.2100
Facsimile 206.454.2211

DATA & ISSUE DESCRIPTIONS

NO.	DATE	BY	DESCRIPTION
001	05/01/01	AS	AS
002	05/01/01	AS	AS
003	05/01/01	AS	AS
004	05/01/01	AS	AS
005	05/01/01	AS	AS
006	05/01/01	AS	AS
007	05/01/01	AS	AS
008	05/01/01	AS	AS
009	05/01/01	AS	AS
010	05/01/01	AS	AS



Project Name
EPA - REGION 10

Project Number
20489300

Location
PLUMBING PLAN -
11TH FLOOR

Sheet
M02.11

PLUMBING PLAN - 11TH FLOOR
SCALE: 3/8" = 1'-0"

SHEET NOTES:

1. FIELD VIBRATORY DENSITY CONDITIONS PRIOR TO STARTING CONSTRUCTION.
2. DITCHED DRAINING FIRST SUPPRESSION STRIP TO PROVIDE COMPLETE SPREADER COVER FOR NEW FLOOR LAYOUT. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

SHEET NOTES

1. FIELD VERIFY EXISTING CONDITIONS PRIOR TO STARTING CONSTRUCTION.
2. EXTEND EXISTING FIRE SUPPRESSION SYSTEMS TO PROVIDE COMPLETE SPREADER COVERAGE FOR NEW FLOOR LAYOUT. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

FLAG NOTES

1. CONNECT NEW 3/4" HM, 1-1/2" CM AND 2" V TO EXISTING SERVICE.
2. 1/2" CM, CONNECT TO REFRIGERATOR.
3. CONNECT 4" WASTE TO EXISTING WASTE RISER. VERIFY POC LOCATION IN FIELD.

EPA - REGION 10

1200 6th Ave.
Levels 10-16 & 18-21
Seattle, WA 98101

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HARGIS

Harlyn Engineers, Inc.
660 Stewart Street, Suite 1000 | Seattle, WA 98101
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Data & Value Description		By	Count
10/01/2011	59% CD / Psycho	All	95
07/01/2012	94% CD / Psycho	All	95
04/01/2013	95% CD / Psycho	All	95
01/01/2013	94% Psycho Sol	All	95
10/01/2013	100% Confused Sol	All	95

Signature _____



Project Name: EPA - REGION 10
3/7/95

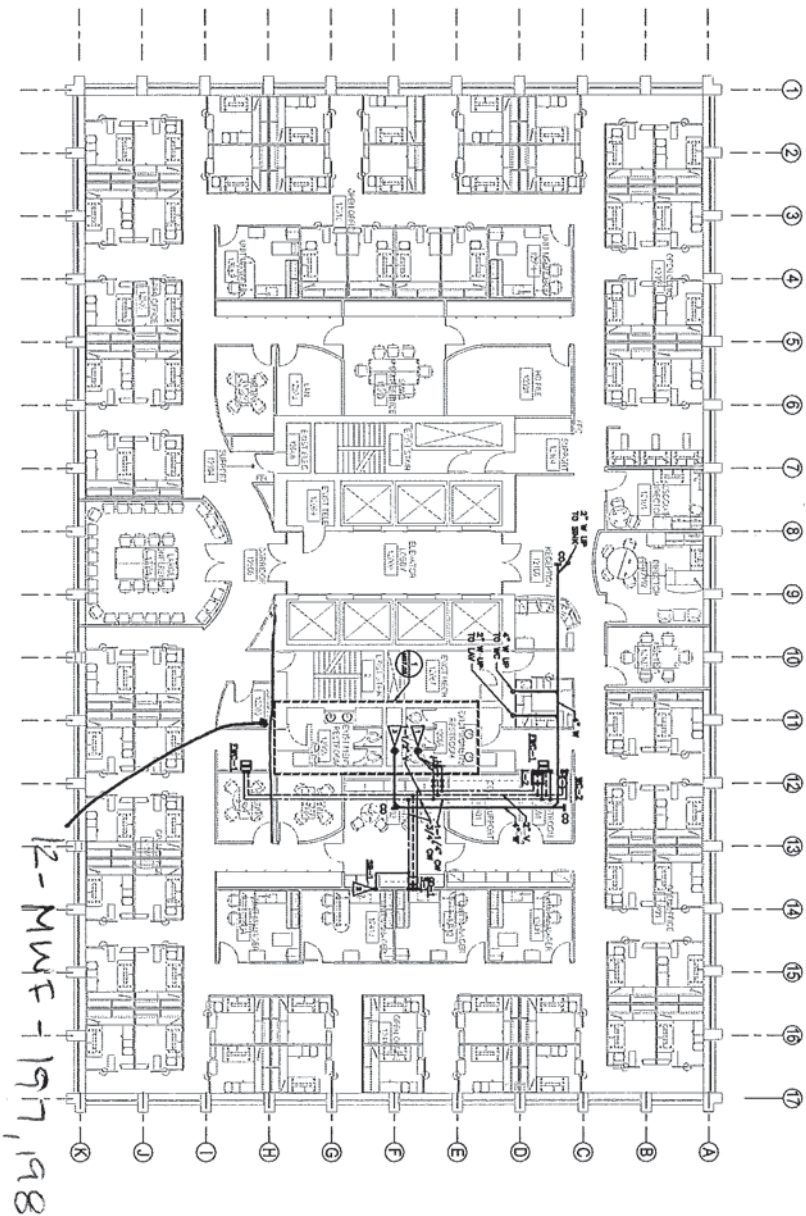
Project Number	
32.4759.000	

PLUMBING PLAN -
12TH FLOOR

Scale
100 = 1 g

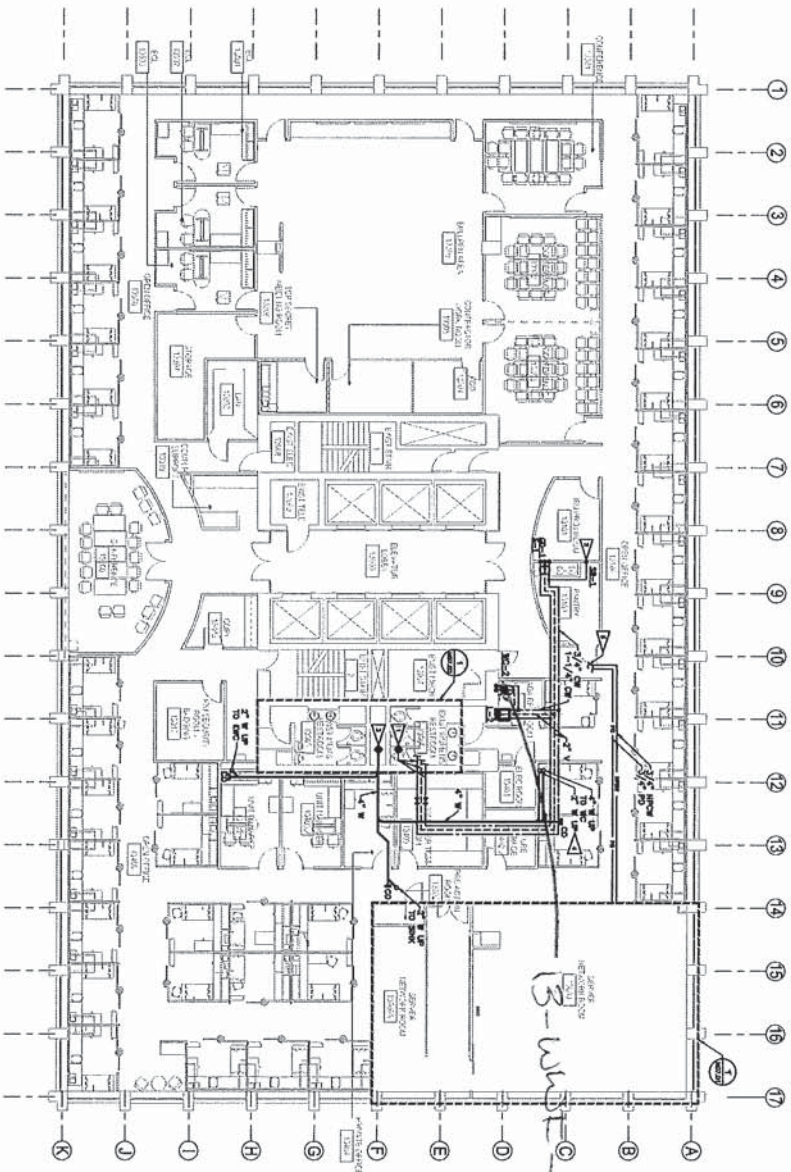
MO2.12

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PLUMBING PLAN - 12TH FLOOR

Q:\C32.0\619_000\BIM\Building Model\User Model File\Barry Zimmerman_32.6160.000_EPA_Phase 2.rvt

[illegible]

1. FIELD VERIFY EXISTING CONDITIONS PRIOR TO STARTING CONSTRUCTION.
2. EXTEND EXISTING FIRE SUPPRESSION SYSTEM TO PROVIDE COMPLETE SPRINKLER COVERAGE FOR NEW FLOOR LAYOUT PERIOD TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

FLAG NOTES:

1. CONNECT NEW 3/4" HD, 1-1/4" OR 2" V TO EXISTING CONNECT.
2. 1/2" OC. CONNECT TO REINFORCEMENT.
3. CONNECT 4" WASTE TO EXISTING WASTE MANH. VERIFY POC LOCATION IN FIELD.
4. COINTEGRATE WASTE FROM 1-4" AND ERM-1" AND SLOPE IN PLUMBING CHASE ABOVE TO AVOID RUNNING PIPE OVER OLD ROAD 12461.
5. ROUTE NEW AND PD TO MECHANICAL ROOM, PROVIDE BACKFLOW PREVENTER PER NPSL REQUIREMENT PD INTO FLOOR DRAIN WITH AIR GUA.

1200 6th Ave,
Levels 10-16 & 18-21
Seattle, WA 98101

Gensler
1200 6th Avenue South 500
Seattle, WA, 98101
Telephone 206.454.2700
Facsimile 206.454.2122

HARGIS

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600 Diamond Drive, Suite 1000, Seattle, WA 98101
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engineering@hargis-inc.com • 713.crowd.com/eng

Delta & Value Description	By Country
302630011 50% CO / Ethanol	All DE
000630012 50% CO / Ethanol	All DE
000530012 100% CO / Ethanol	All DE
012330013 50% Cooled Sol	All DE
300630013 100% Cooled Sol	All DE

Project Name
EPA - REGION 10

Project Number	22-AT119-000
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PLUMBING PLAN -
13TH FLOOR

Scale
4.000 - 0.000

M02.13

• 4010 Credits

SHEET NOTES:

1. FIELD VERIFY DUSTING CONDITIONS PRIOR TO STARTING CONSTRUCTION.
2. DITCH DUSTING FIRST SUPPRESSION SYSTEM TO PROVIDE COMPLETE SPREADER COVERAGE FOR NEW FLOOR LAYOUT. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

EPA - REGION 10

1200 6th Ave.
Levels 10-16 & 18-21
Seattle, WA 98101

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1200 6th Avenue Suite 500
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HARGIS

Harpis Engineers, Inc.
600 Stewart Street, Suite 1000 | Seattle, WA 98101
t | 206.448.2376 f | 206.448.4433 w | harpis.com
info@harpis.com ELECTRONIC - THERMAL/MECHANICAL

DOI & Issue Description	By Class
1006/2011 64% CD / 24% 0	All PE
0006/2012 94% CD / 21% 0	All PE
0406/2012 100% CD / 24% 0	All PE
0106/2013 94% Combined Set	All PE
0306/2013 100% Combined Set	All PE



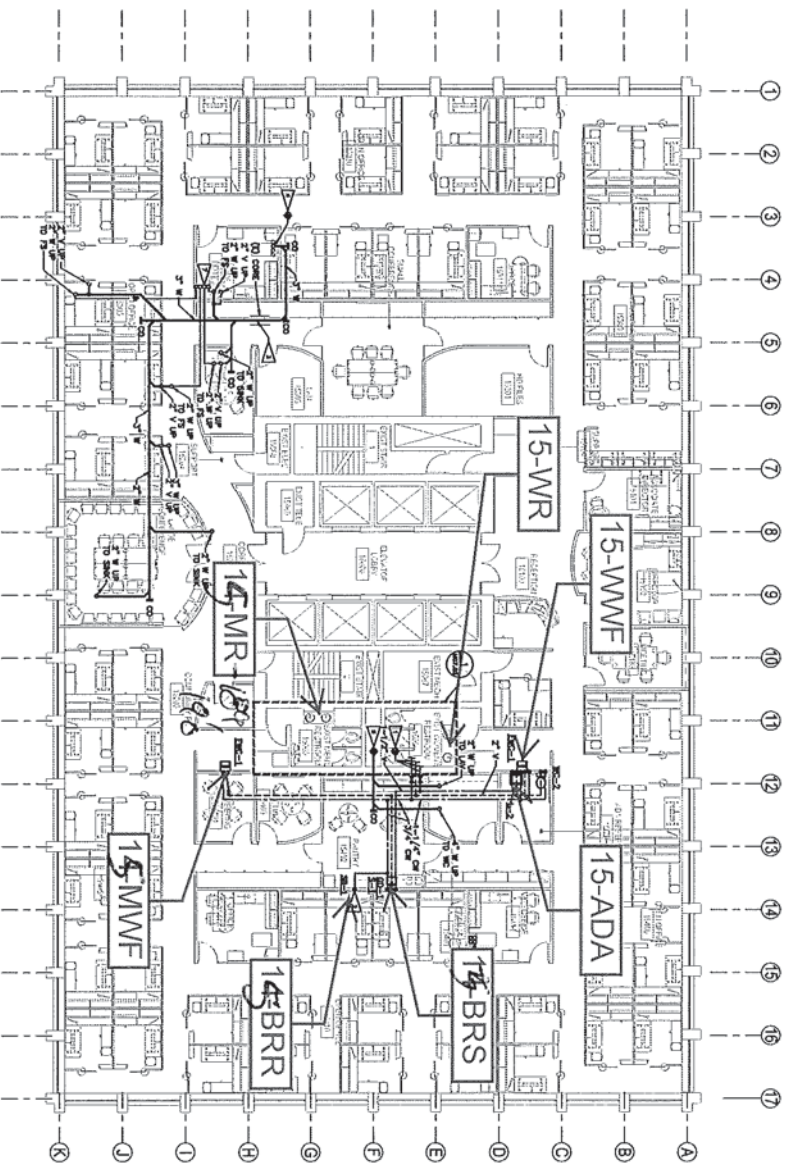
EPA - REGION 10

Project Number
32.81199.0003

**PLUMBING PLAN -
15TH FLOOR**

Scale

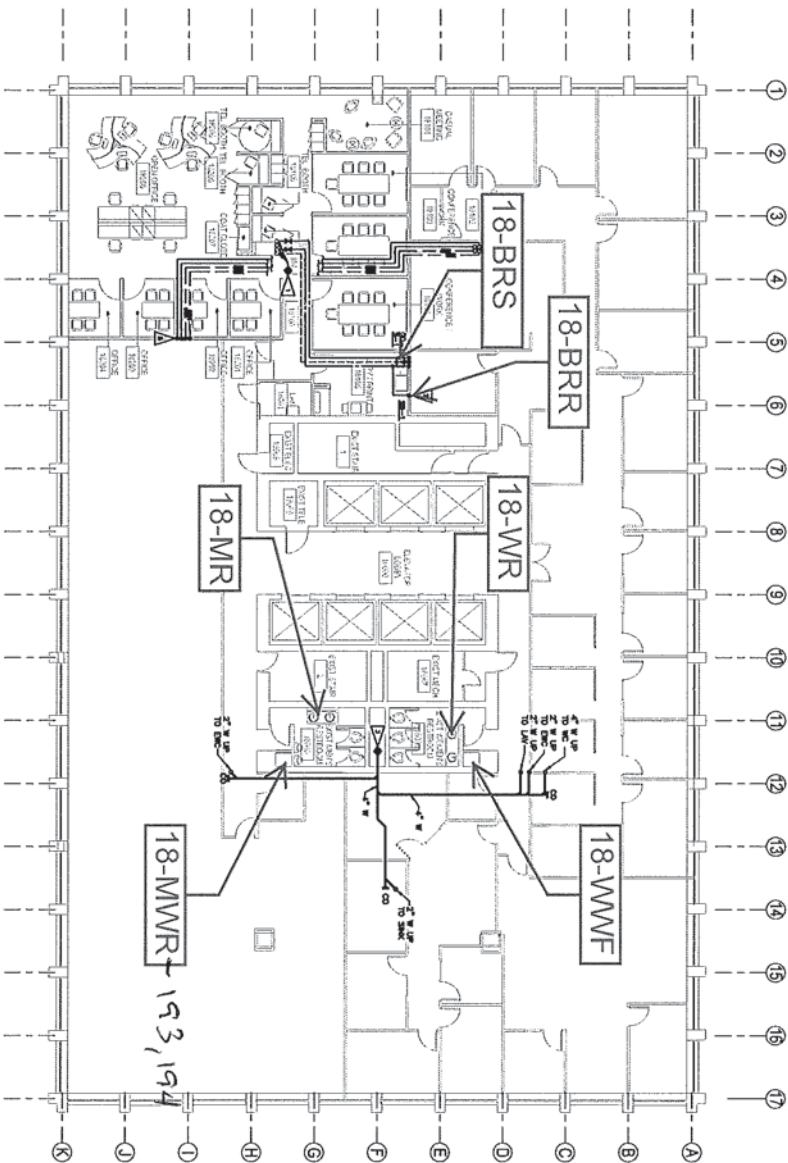
M102.15

• 450713 *Continued*

FLAG NOTES:

- ▷ **CONCENTRATE** HEAT 3/4" H₂O, 1-1/2" CW AND 2" V TO DESTROY SPERMATOPHYTES
- ▷ 1/2" CW, CONNECT TO HYDROPHOBIC
- ▷ ROUTE WASTE PUMPING THROUGH (2) BLOW DOWN VALVES
- ▷ PUMP 2" WASTE TO DESTROY WASTE AREA, VARY POC LOCATION IN FIELD
- ▷ PUMP 2" WASTE TO DESTROY WASTE AREA, VARY POC LOCATION IN FIELD
- ▷ 2-1/2" DSS AND 2" GAS LINES DOWN TO GWC-1 AND GWC-2, 2" GAS LINES DOWN TO 13500 AND UP TO GWC-1 AND GWC-2
- ▷ 1/2" GAS LINES FROM GWC-1 AND GWC-2 TO 13500
- ▷ 1/2" GAS LINES FROM 13500 TO ALL FLOOD PANS EXCEPT GWC-1 AND GWC-2

PLUMBING PLAN - 15TH FLOOR



QUEST NOTE:

1. FIELD VERIFY EXISTING CONDITIONS PRIOR TO STARTING CONSTRUCTION.
2. EXTEND EXISTING FIRE SUPPRESSION SYSTEM TO PROVIDE COMPLETE SMOKE/HEAT EXHAUST FOR NEW FLOOR LAYOUT, REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
3. NEW WORK OCCURS IN OCCUPIED AREA. COORDINATE WORK SCHEDULE WITH OWNER AND TRAVEL.

FLAG NOTES:

- ▷ CONNECT NEW 3/4" HD, 3/4" CW AND 1-1/2" V TO EXISTING SERVICE
- ▷ 1/2" CW, CONNECT TO REFRIGERATOR.
- ▷ CONNECT 4" WASTE TO EXISTING WASTE REGR. VENT. POP LOCATION IN FIELD.
- ▷ 2-1/2" OS& AND GAS LINES UP TO OC-1 AND OC-2 ON THE ROOF.
- ▷ 2-1/2" OS& AND GAS LINES DOWN TO CHAC-1 AND CHAC-2 DRAINING SERVICE/VENTURE FROM 15000.

EPA - REGION 10

1200 6th Ave.
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600 Stewart Street, Suite 1000, Seattle, WA 98101
t 206.448.3370 f 206.448.4410 w Maple.biz
Email: info@maple.biz, info@maple.biz

Date & Issue Description	By	Chart
10/29/2011 9:05 AM / Pk2009	AH	BE
10/29/2012 9:55 AM / Pk2009	AH	BE
04/25/2012 10:34 AM / Pk2009	AH	BE
01/27/2013 9:55 AM / Packout Sol	AH	BE
03/27/2013 11:44 AM / Packout Sol	AH	BE

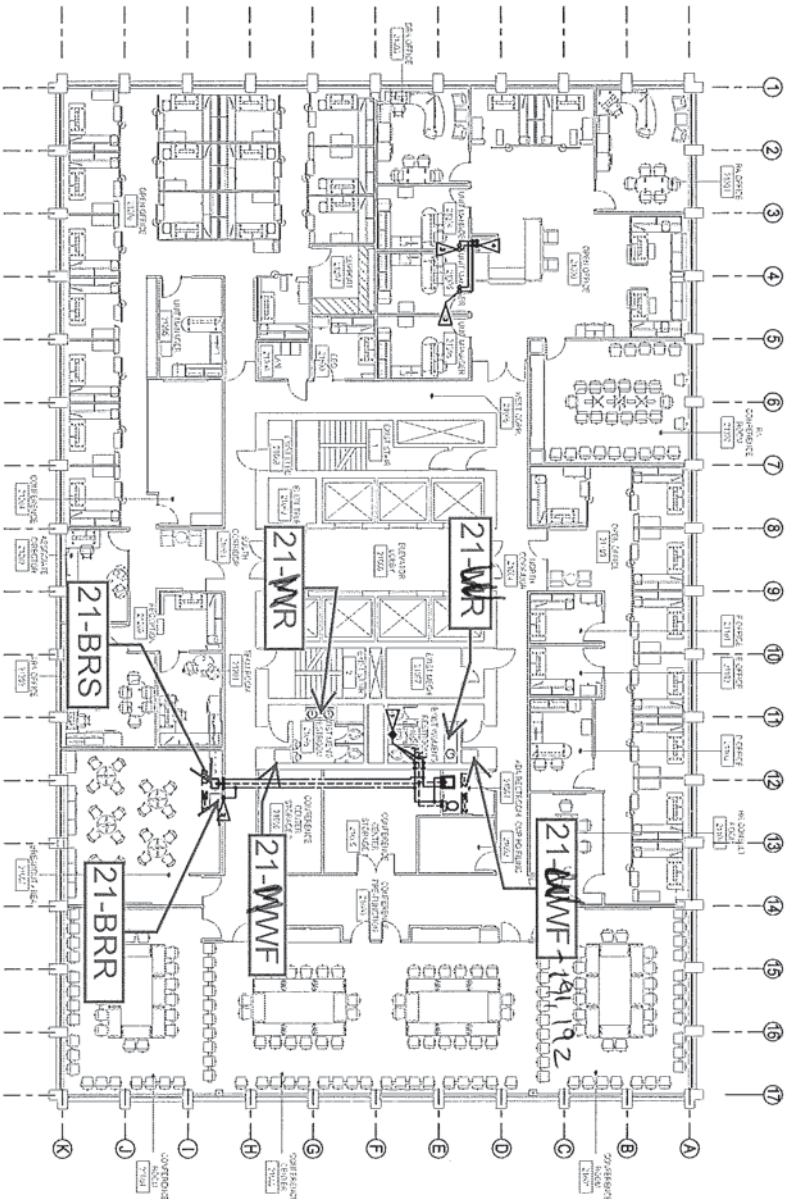


EPA - REGION 10

Project Number: 22.8-05.000

**Plumbing Plan -
18TH FLOOR**

M102.18



QUESTIONS

1. FIELD VERIFY EXISTING CONDITIONS PRIOR TO STARTING CONSTRUCTION.
2. EXTEND EXISTING FIRE SUPPRESSION SYSTEM TO PROVIDE COMPLETE SPRAWLER COVERAGE FOR NEW FLOOR LAYOUT. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

FLAG NOTES:

- 1- CONNECT NEW 3/4" IN., 1-1/2" CW AND 2" V TO EXISTING SERVICE.
- 2- 1/2" CW, CONNECT TO REFRIGERATOR.
- 3- 2-1/2" GAS AND GAS LINES UP TO DC-1 AND DO-2 ON THE ROOF.
- 4- 2-1/2" GAS AND GAS LINES DOWN TO CHV-1 AND CHV-2 SERVING SERVICE/NETWORK ROOM 1500L.

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 6024482578 | 206 448 4410 | w | hargis.biz

Date & Name Description	By	Check
1/27/2011 4206.00 Payroll	AM	98
1/28/2012 9454.00 Payroll	AM	98
04/25/12 1004.00 Payroll	AM	98
6/27/2012 9254 Combined Sal	AM	98
6/27/2012 1004 Combined Sal	AM	98

Project Name
EPA - REGION 10Project Number
22.8199.000

**PLUMBING PLAN -
21ST FLOOR**

M02.21